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NOTES AND NEWS.

It is to be hoped that readers of the MONTHLY will coöperate in contributing to the general interest of this department by sending items to H. P. MANNING, Brown University, Providence, R. I.

Mr. J. W. BLINCOE has been appointed instructor of mathematics in Randolph-Macon College, Ashland, Va.

Mr. F. J. BURKETT, of the Pennsylvania State College, was appointed instructor of mathematics in the University of Pittsburgh in September, 1920.

At Columbia University, the following are temporarily associated with the department of mathematics as visiting lecturers: Professor M. A. NORDGAARD, of the University of Iowa, Professor J. A. NORTHCOTT, of Syracuse University, and Professor R. R. HITCHCOCK, of the University of North Dakota. Professor H. B. MITCHELL is absent on leave for the first half of the current academic year, and Professors D. E. SMITH and EDWARD KASNER will be absent during the second half of the year.

Mr. A. O. HICKSON, of Acadia University, has been appointed instructor of mathematics at Brown University for the second semester of the present academic year, Professor R. C. ARCHIBALD being absent on sabbatic leave (cf. *1921*, 336).

Mr. C. J. CARDIN, mechanical engineer and industrial instructor of the Bethlehem Shipbuilding Company, has been appointed instructor of Mathematics at Washington and Jefferson College.

Professor T. O. WALTON, of Michigan Agricultural College, has been appointed assistant professor of mathematics at Kalamazoo College.

Dr. L. H. HILL, of the University of Montana, has been appointed associate professor of mathematics at the University of Maine.

W. H. HILL, who during the past year was instructor of mathematics at the University of Colorado, is now assistant professor of mathematics at the Manual Training Normal School at Pittsburg, Kansas.

Mr. F. W. JOHN, of Cornell University, has been appointed instructor of mathematics in Washington Square College of New York University.

Mr. A. S. PRATT, who was instructor of mathematics at the University of Maine 1919–1921 (*1920*, 141), is teacher of mathematics at the Moses Brown School, Providence, R. I.

Miss HELEN BARTON, for the past two years instructor of mathematics at Wellesley College (*1919*, 219), has been appointed dean of women at Albion College, Albion, Mich.

Dr. H. R. KINGSTON, formerly assistant professor of mathematics and astronomy, University of Manitoba, has been appointed professor and head of the department of mathematics at Western University, London, Ontario.

Last June Lecturer JOSEPH DE PEROTT, of Clark University, retired from active service in the department of mathematics.

Instructor H. L. SMITH, of the University of Wisconsin, and a charter member of the Mathematical Association, has been appointed professor of mathematics at the University of the Philippines.

At Dartmouth College, Assistant Professor R. D. BEETLE has been promoted to a full professorship. Professor J. W. YOUNG has returned to the department after a leave of absence of two years during which he has served as chairman of the National Committee on Mathematical Requirements. Assistant Professor F. M. MORGAN has been granted leave of absence for the second semester of the current academic year.

At Cornell University, Professor JAMES MCMAHON retired from active service last June. The previously announced Heckscher research grant to Mr. H. S. VANDIVER (*1921*, 287) for the continuation of his investigations on the theory of algebraic numbers has been extended to cover the first semester of the year 1921–1922, and Mr. VANDIVER has been granted leave of absence for that period. Mr. JESSE OSBORNE, of Pennsylvania State College, and Mr. R. L. JEFFERY, of Acadia College, have been appointed instructors.

Mr. G. I. HOPKINS, head of the mathematics department and for the last three years principal of the Manchester, N. H., high school, resigned from this position in June. He had reached the age of 72 and had given faithful service to this school for a continuous period of forty-one years. He is the author of *Manual of Plane Geometry on the Heuristic Plan*, Boston, 1891.

Miss HENRIETTA S. LEAVITT, member of the staff of the Harvard Astronomical Observatory, died in Cambridge, Mass., December 12, 1921. She was born in Lancaster, Mass., July 4, 1868. She graduated at Radcliffe College with the degree of B.A. in 1892, took graduate work in astronomy in 1892–1893, and research work at the Harvard Observatory in 1895–1896. In 1902 she became engaged in photographic researches, which she continued till her death, making a special study of the photographic brightness of the stars and of the relation between the brightness and periods of variable stars. The scientific results of her work are found in volumes 60, 71, 84 and 85 of the *Annals of the Harvard Observatory*.

The following reports of Summer Sessions in 1922 have been received.

University of California, June 26–August 5. In addition to the usual courses in Plane trigonometry, Graphic algebra, Differential calculus, Integral calculus, and Plane analytic geometry, the following courses are offered. By Professor G. E. F. SHERWOOD: Solid analytic geometry and theory of infinite series. By Dr. P. H. DAUS: Synthetic projective geometry. By Professor B. A. BERNSTEIN: Elementary algebra for advanced students. By Professor L. E. DICKSON: Applied trigonometry, Selected topics in the theory of equations. By Professor G. D. BIRKHOFF: Differential equations, Theory of relativity. Each course is equivalent to two units.—Southern Branch, July 1–August 12. In addition to courses in Plane trigonometry, Plane analytic geometry, and Differential calculus, the following course is offered. By Professor D. N. LEHMER: Introduction to synthetic projective geometry, 2 units.

University of Chicago, First Term, June 19–July 26; Second Term, July 27–September 1. By Professor E. H. MOORE: Fundamental number systems of analysis, four hours, first term only; Limits and series, four hours, first term only. By Professor H. E. SLAUGHT: Elliptic integrals, four hours; Differential equations, four hours. By Professor G. A. BLISS: Functions of a complex variable, four hours; Calculus of variations, four hours. By Professor E. J. WILCZYNSKI: Metric differential geometry, four hours; College algebra, five hours. By Professor J. W. A. YOUNG: Theory of equations, four hours; Differential calculus, five hours. By Professor F. R. MOULTON: Celestial mechanics, four hours. By Professor A. C. LUNN: Statistics and probability, four hours; Vector analysis, five hours. By Professor R. L. MOORE: Foundations of analysis situs, four hours; Integral calculus, five hours. By Mr. J. H. VANDIVER: Theory of numbers, four hours; Plane analytic geometry, five hours. By Professor C. H. GINGRICH: Plane trigonometry, five hours.

Columbia University, July 10–August 18. In addition to the usual courses in Logarithms and trigonometry, Solid geometry, College algebra, Analytic geometry, and Calculus, the following courses are offered. By Professor J. F. RITT: Theory of functions of a complex variable. By Professor DUNHAM JACKSON: Differential equations, Fourier's series. By Professor W. B. FITE: Projective geometry. By Dr. G. A. PFEIFFER: Introduction to higher algebra. Each of these courses meets five times per week.

Cornell University, July 8–August 18. In addition to the courses in Solid geometry, Advanced algebra, Trigonometry, Analytic geometry, and Calculus, the following advanced courses are offered. By Professor VIRGIL SNYDER: Projective geometry. By Professor D. C. GILLESPIE: Analysis. The following reading and research courses are also offered. By Professor SNYDER: Algebraic curves and surfaces. By Professor F. R. SHARPE: Applied mathematics. By Professor W. B. CARVER and Professor F. W. OWENS: Foundations of geometry and problems in synthetic geometry. By Professor GILLESPIE: Functions of a real variable, Point-sets, Calculus of variations. By Professor W. A. HURWITZ: Advanced analysis. By Professor C. F. CRAIG: Functions of a complex variable.

Harvard University, July 10–August 19. By Mr. R. E. LANGER: Trigonometry, Analytic geometry. By Professor W. C. GRAUSTEIN: Differential and integral calculus. By Professor O. D. KELLOGG: Differential and integral calculus. Each course meets five times per week.

University of Illinois, June 19–August 12. In addition to the usual courses in College algebra, Plane trigonometry, Analytic geometry, Differential and integral calculus, the following courses are offered. Each course meets five times per week, except as otherwise stated. By Professor G. A. MILLER: Advanced algebra; Critical study of Cajori's *History of Mathematics,* 3 hours; Seminar in group theory, 2 hours. By Dr. C. C. CAMP: Differential equations. By Dr. C. F. GREEN: Advanced analytic geometry. By Professor E. B. LYTLE: Teachers' course. By Professor ARNOLD EMCH: Geometric transformations. By Professor J. B. SHAW: Vector methods.

University of Iowa, First Term, June 7–July 22. By Professor J. F. REILLY: Subject matter and teaching of mathematics, Actuarial theory. By Professor

E. W. CHITTENDEN: Integral calculus, Differential equations, Theory of functions of a complex variable. By Mr. R. E. GLEASON: Differential calculus, Theory of equations, Projective geometry. By Mr. F. S. HARPER: Algebra, Trigonometry. By Mr. O. E. BROWN: Trigonometry, Analytic geometry. By Mr. H. W. CHANDLER: Solid geometry. Second Term, July 24–August 25. By Professor R. P. BAKER: Calculus, Projective geometry, Geometric magnitudes. By Dr. W. H. WILSON: Algebra, Determinants. By Mr. R. E. GLEASON: Analytic geometry. The courses are five hours per week in class through the sessions. When transformed into hours of the ordinary academic year, the credit for each course taken during the first session is two semester hours and for the second session five sixths of this amount.

University of Kansas, First Session, June 12–July 21. By Professor C. H. ASHTON: Complex numbers, College algebra. By Professor U. G. MITCHELL: Differential equations, Teachers' course. By Professor J. J. WHEELER: Analytic geometry, Calculus. Second Session, July 24–August 18. By Professor S. LEFSCHETZ: Theory of equations, Trigonometry.

University of Michigan, June 26–August 18. By Professor W. B. FORD: Advanced algebra, Advanced calculus. By Professor Peter FIELD: Theory of potential. By Professor T. R. RUNNING: Graphical methods. By Professor L. C. KARPINSKI: History of mathematics. By Professor T. H. HILDEBRANDT: Differential equations. By Professor W. B. CARVER: Theory of statistics, Theory of probability. By Mr. N. H. ANNING: Advanced geometry. By Mr. C. H. RICHARDSON: Finite differences. Each course meets for four hours a week.

University of Minnesota, June 19–July 29. In addition to the usual courses in College algebra, Plane trigonometry, Analytic geometry, and Differential and integral calculus, the following course is offered: By Professor R. W. BRINK, W. L. HART, and A. L. UNDERHILL: Selected topics in advanced mathematics.

University of Oklahoma, June 7–August 1. In addition to courses in College algebra, Trigonometry, Analytic geometry, Differential calculus, and Integral calculus, the following courses are offered. By Professor S. W. REAVES: Analytic geometry of space, 3 hours. By Professor J. O. HASSLER: Teachers' course, 2 hours. By Professor N. ALTSHILLER-COURT: History of mathematics, 2 hours; College geometry, 3 hours.

University of Wisconsin, June 19–August 4. In addition to courses in Solid geometry, College algebra, Trigonometry, Analytic geometry, Differential and integral calculus, and Mathematical theory of investment, the following courses are given. By Professor E. B. SKINNER: Elements of the group theory. By Professor H. W. MARCH: Mathematical formulation of scientific problems, Fourier series. By Professor ARNOLD DRESDEN: Advanced integral calculus, Theory of point sets. By Professor W. W. HART: The teaching of mathematics, Higher Euclidean geometry for teachers. By Professor E. P. LANE: Differential geometry. By Dr. F. E. ALLEN: Theory of equations. By Mr. H. T. DAVIS: Differential equations.

NATIONAL COMMITTEE ON MATHEMATICAL REQUIREMENTS.

The complete report of the National Committee on Mathematical Requirements is in the press and will, it is hoped, be ready for distribution in April.[1] It is published under the title "The Reorganization of Mathematics in Secondary Education" and will constitute a volume of about 500 pages. The table of contents given below indicates its general character.

Through the generosity of the General Education Board the National Committee is in a position to distribute large numbers of this report free of charge. It is hoped that the funds available will be sufficient to place a copy of this report in every regularly maintained high school library, and also to furnish every individual with a copy free of charge who is sufficiently interested to ask for it. Requests from individuals for this report are now being received. They should be sent as early as possible to J. W. Young, Chairman, Hanover, New Hampshire. The receipt of these requests is not in general acknowledged, but applicants may rest assured that their requests will be filled when the report is ready for distribution. If the number of requests received exceeds the number the Committee is able to distribute, the earlier requests will receive the preference.

The table of contents of the report is as follows: Part I: General Principles and Recommendations—Chapter I: A brief outline of the report; II: Aims of mathematical instruction, general principles; III: Mathematics for years seven, eight and nine; IV: Mathematics for years ten, eleven and twelve; V: College entrance requirements; VI: Lists of propositions in plane and solid geometry; VII: The function concept in secondary school mathematics; VIII: Terms and symbols in elementary mathematics. Part II: Investigations Conducted for the Committee—Chapter IX: The present status of disciplinary values in education, by Vevia Blair; X: The theory of correlation applied to school grades, by A. R. Crathorne; XI: Mathematical curricula in foreign countries, by J. C. Brown; XII: Experimental courses in mathematics, by Raleigh Schorling; XIII: Standardized tests in mathematics for secondary schools, by C. B. Upton; XIV: The training of teachers of mathematics, by R. C. Archibald; XV: Certain questionnaire investigations; XVI: Bibliography on the teaching of mathematics, by D. E. Smith and J. A. Foberg.

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[1] The Committee has since announced that the report will not be ready before May.

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